



AS-2471TW-FM /AS-2472TWU

User Guide

WARNING

It is the responsibility of the vehicle operator to ensure their vehicle is parked in a safe and responsible manner.



1. a) Manual transmission: When leaving the vehicle, it is the user's responsibility to ensure that the gearshift lever is in the NEUTRAL position and the parking brake is engaged in order to avoid accidents upon remote starting.
b) Automatic transmission: When leaving the vehicle, it is the user's responsibility to ensure that the gearshift lever is in "Park" in order to avoid accidents upon remote starting.
(Note: Make sure that the automatic vehicle cannot start in "Drive".)
2. It is the user's responsibility to ensure that the remote starter is disabled or put into valet mode before servicing.

A note concerning the battery inside the transmitter:

Depending on your usage of the transmitter, the battery can last anywhere between 3 to 6 months. When the battery is low, the transmitter will produce two beeps in a repetitive cycle. *At that point you should replace your battery with a new one.* That is why we recommend that you keep a spare battery somewhere handy such as the glove compartment.

Designed & engineered in Canada

Directed
ELECTRONICS CANADA, INC.

INDUSTRY CANADA USER NOTICE:

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that required for successful communication.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment

Table of Contents

Government regulations	3
Introduction with SmartStart™ 	3
Vehicle Presets	4
Heater	4
Windshield Wipers, Radio & Headlights	4
Using the Transmitter	4
LCD Transmitter basic confirmations	5
Basic Vehicle Operations	5
Backlight.....	6
Remote's advanced functions and MENU.....	6
How to access default advanced remote functions and MENU	6
Remote-Starting Your Vehicle.....	9
Setting Your Vehicle Into Ready Mode	9
Remote-starting.....	10
Driving Off	10
Arming and disarming the starter kill (if installed)	10
Remote Starter Features.....	11
Remote Door Locks	11
Remote Trunk Release	12
Idle Mode	12
Valet Modes	13
Panic Mode	13
Quick Lockout™	14
Cold Weather Mode	14
Extended Run Time	14
Disable/Enable LED flashing	15
Temperature Request (If ACC-Temp-100 installed)	15
Advanced Features: Installation-programmable Options	15
Ignition-controlled Door Locks	15
Secure Lock	15
Safe Start	15
Engine Run Time	16
Turbo Mode.....	16
“Home Valet™” Mode	16
AUX 1.....	17
Horn Chirp Timing.....	17
Multi-car Operation.....	17
OEM-Style Alarm	18
Intrusion Codes via horn	18
Missing a Start or a Stop Confirmation.....	18
Multi-Level Features	19
Troubleshooting Transmitting Range	20
Diagnostics – Parking Light Flash Table	20

Government regulations

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with the Industry Canada Radio Standards Specification RSS 210. Its use is authorized only on a no-interference, no-protection basis; in other words, this device must not be used if it is determined that it causes harmful interferences to services authorized by IC. In addition, the user of this device must accept any radio interface that may be received, even if this interference could affect the operation of the device.

Warning! Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

Introduction with SmartStart™



This is a state-of-the-art remote car starter system. The system is packed with advanced features such as priority access to the driver's door (commodity features), the Safe Start children safety feature and SmartStart™.

SmartStart™ is a groundbreaking technology that enables your remote starter features to be accessed by your smartphone. Features include keyless entry, trunk release, panic, remote start/stop toggle and alarm notifications¹. Note: SmartStart™ must be professionally installed. For more information, see your nearest authorised Directed Canada dealer.

With many advanced functions, this product will satisfy any one of your expectations from high-end commodity and security systems, without neglecting any standard feature commonly offered by entry-level starters.

¹ Certain conditions apply. See your authorised Directed Canada dealer.

Vehicle Presets

Heater

When leaving the vehicle it is recommended to preset the accessory controls in preparation for the next remote start. Settings for the blower motor (fan), front and rear, should not be left on HIGH. It is recommended to leave the settings on LOW or MEDIUM instead.

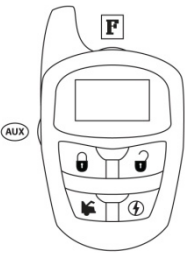
Windshield Wipers, Radio & Headlights

Certain vehicles require the radio and / or windshield wiper and / or headlight circuits to become energized while running under remote start. When leaving the vehicle you must ensure that the windshield wiper and headlight switches are OFF. Leaving the headlight switch ON on certain types of vehicles could cause them to remain ON even after remote starter shut down, resulting in a dead battery.

Using the Transmitter

Your remote starter is equipped with a 6-button multi-channel remote control. It can operate two independent vehicles equipped with identical remote starters (see Multi-car operation section on page 17).

The functions of the 2-way transmitter are as follows:

		LOCK: Locks the doors and arms the STARTER KILL (if installed).
		UNLOCK: Unlocks the doors and disarms the STARTER KILL (if installed). Activates the AUX 1 output if Priority Door Access is configured.
		TRUNK: Opens the TRUNK or activates the AUX 3 output. Note: Trunk option must be installed.
		START: Remote starts the engine. Gets the system into Cold Weather mode if pressed for longer than 3 seconds. Note: Icon may vary.
		FUNCTION button Turns the backlight ON, allows access to the Multi-level functions and to the Menu.
		AUX button (if programmed): Activates AUX 2 output, stops the engine, requests Temperature, activates Panic mode or activates Cold Weather mode.

The functions of the 1-way transmitter are as follows (optional):

	LOCK: Locks the doors and arms the STARTER KILL (if installed).	 (Image as reference only)
	UNLOCK: Unlocks the doors and disarms the STARTER KILL (if installed). Activates the AUX 1 output if Priority Door Access is configured.	
	TRUNK: Opens the TRUNK or activates the AUX 3 output. Note: Trunk option must be installed.	
	START/STOP: Remote starts or stops the engine. Gets the system into Cold Weather mode by pressing the AUX button and then pressing and holding the START/STOP button for 3 seconds. Note: Icon may vary.	
AUX	AUX: This button serves as a second function button. This button allows assigning different functions to any of the other four buttons.	

LCD Transmitter basic confirmations

Basic Vehicle Operations

Function	Button pressed	Icon / text	Sound	Instructions /description
Lock		 / LOCK	1 beep	Lock and arm the system
Unlock		 / UNLOCK	2 beeps	Unlock and disarm the system
Trunk or Aux 3		TRUNK	1 beep	Trunk output
Start		0:15 +  (default)	3-beeps	Start the engine
Stop		None	2-beeps	Stop the engine
Back light		On for 5 seconds		Press  for 1 sec then release
Cold Weather mode	 , then  (default)		1 beep	See Cold Weather Mode section (page-14)
Remote Valet	 + 		1 beep	See Valet mode section (page-12)
Panic	 or  for longer than 5 sec.	None	1 beep	See Panic Mode section (page-13)

Backlight

Three different ways to use the backlight:

- Turning the backlight on for 3 seconds, press the  for at least 1 second and release.
- If the  button is pressed and held for more than 5 seconds the backlight will stay ON as long as the button is held.
- To browse the MENU while the backlight is ON:
 - a) Press the  for at least 1 second and release. The backlight should turn ON.
 - b) Within 3 seconds, press the  button for 2 seconds to access the various functions.

Remote's advanced functions and MENU

How to access default advanced remote functions and MENU

User		Transmitter (default)
1. Press  for 1 second and release	➔	Remote beeps once and L-01 appears on screen.
2. Press  a 2 nd time for 1 second and release	➔	Remote beeps once and L-02 appears on screen.
3. Press  a 3 rd time for 1 second and release	➔	Remote beeps once and L-03 appears on screen.
4. Press  a 4 th time for 1 second and release	➔	Remote beeps once and MENU appears on screen.
5. At that point, press  to enter the remote's MENU.	➔	Follow the steps listed below in "Selecting and adjusting advance MENU options":

Note: The order of LEVELS and MENU can be re-arranged in the menu option FBPRO.

Selecting and adjusting advanced menu options:

- When in MENU, press  button to enter the menu.
- Press  button to move up in the menu or  button to move down in the menu.
- Press  button to select the option you would like to adjust
- Press  button to increase the value or to activate or deactivate a function or toggle through the selection.
- Press  button to decrease the value or to activate or deactivate a function or toggle through the selection.
- Press  button to move to the next sub-option or go back to the main menu.
- To SAVE modifications and EXIT remote's MENU, do not touch any button for approximately 5 to 10 seconds.

Remote's advanced functions and MENU

Display	Description
	Parking meter countdown This version of the countdown feature is particularly useful for keeping track of parking meter time: the user may quickly set up the countdown using the Parking Menu. The transmitter will beep once, 5min before the Parking countdown reaches 0 and beeps 6 times once the countdown expires.
PARK	Through Advanced Options, first press [F] to select MENU, then: - Choose PARK and press . - Set the time at which you want set the alarm. First set the hour, and press . Then set the minutes and press . - Choose ON and wait. A flashing "P" will appear on screen to confirm activation.
(1)	
	Alarm Clock The LCD remote control has a built-in alarm clock, which can be set up using the Alarm Clock Menu. Once the programmed time is reached, the remote will beep 6 times every minute until a button is pressed.
ALARM	Through Advanced Options, first press [F] to select MENU, then: - Choose ALARM and press . - Set the time at which you want to set the alarm. First set the hour, and press . Then set the minutes and press . - Choose ON and wait. A flashing "A" will appear on screen to confirm activation.
(2)	
	Cold weather mode function:
CWM	Through Advanced Options, first press [F] to select MENU, then: - Choose CWM and press . - Choose ON/OFF, then press and hold  until  icon appears.
(3)	
	Valet function:
VALET	Through Advanced Options, first press [F] to select MENU, then: - Choose VALET and press . - Choose ON/OFF, then press and hold  until  icon appears.
(4)	
	Time start function: This feature is used to remote start the car at a pre-programmed time. Once the pre-programmed time is reached, the remote will send a start command to the car module. (Note: For this feature to work, remote has to be within range of the vehicle).
TSTART	Through Advanced Options, first press [F] to select MENU, then: - Choose TSTART and press . - Set the time at which you want to remote start the vehicle. First set the hour, and press . Then set the minutes and press . - Choose ON and wait. A flashing "T" will appear on screen to confirm activation.
(5)	
	Secure: This feature is used to lock the keypad of the transmitter to avoid accidental button press. When the keypad is locked and a button is pressed, the LCD will display "PRESF" for 1 second and goes back to the clock. The transmitter keypad can also be locked as follows: Press [F] to select MENU.
SECUR	
(6)	

	b. Within 3 seconds, press . c. The LCD will display "Security" to confirm locking of the keypad. • Press [F] for about 1sec, to unlock the transmitter's keypad.
	Backlight color The backlight can be set to 8 different colors.
COLOR	Through Advanced Options, first press [F] to select MENU, then: a. Choose COLOR and press . b. Choose the desired color by pressing  or .
(7)	
	LCD: If there is no activity within the programmed time, LCD screen will automatically turn off after 1 min, 15 min, 30 min, 60 min or always ON. This feature maximizes the lifetime of the battery.
LCD	
(8)	
	Clock: The Clock menu is used to set the current time on your remote control.
CLOCK	Through Advanced Options, first press [F] to select MENU, then: a. Choose CLOCK and press . b. Set the time at which you want to set the clock. First set the hour, and press , then set the minutes and press .
(9)	
TEMP	Temp Can be set to read the temperature in Celsius (CTEMP) or Fahrenheit (FTEMP)
(10)	
LANGU	Language Can be set to either English or French
(11)	
	Side button function: The side button can be programmed as: • Panic button; • Stop button; • Temperature request button; • Aux 2 output button; • or CWM (Cold Weather Mode).
SBPRO	
(12)	
	Keypad lock Note: In order for this feature to work, "Secure function" must be set to ON. If there is no activity within the programmed time, the keypad will automatically lock after 5 seconds, 10 seconds or 20 seconds. • Press [F] for about 1sec, to unlock the transmitter's keypad.
KEYLOC	
(13)	
	LCD illumination: When this function is enabled, the LCD will illuminate each time LOCK, Unlock or START is activated.
ILLUM	
(14)	

	F Button Function: The order of LEVELS and MENU can be re-arranged using the F Button Function Menu. Details on (page-18).		
FBPRO (15)	F Button Function Menu Function Button programming	FBPRO 1 2 3 M 2 3 1 M 3 1 2 M 2 1 3 M M 1 2 3	Function Button Programming Level 1, level 2, level 3, MENU Level 2, level 3, level 1, MENU Level 3, level 1, level 2, MENU Level 2, level 1, level 3, MENU MENU, level 1, level 2, Level 3

Remote-Starting Your Vehicle

Setting Your Vehicle Into Ready Mode

If your vehicle has a manual transmission you must read the following indications. The unit must first be set to Ready Mode in order to start the vehicle by remote. If the unit is not set to Ready Mode, it cannot remote start the vehicle. Please note that Ready Mode can be enabled by the remote or the handbrake, depending on the option that was selected by your installer. Therefore, you must follow the appropriate procedure between the two described below in order to set your vehicle into Ready Mode.

Once the system is set to Ready Mode, the vehicle can be remote started and stopped at any time. The system will exit Ready Mode if a door, the hood or the trunk is opened, if the brake pedal is pressed, if the parking brake is disengaged or if the ignition key is turned to the IGNITION ON (RUN) position.

To set the system to Ready Mode:

To set the system to Ready Mode:

If Ready Mode is enabled by remote	If Ready Mode is enabled by handbrake
1. Ensure that all the doors, hood and trunk are closed. Make sure that the gear selector is in the neutral position.	
2. With the engine running, apply the parking brake once and release the brake pedal. 3. Within 20 sec. of engaging the parking brake, press and hold ,  or  on the transmitter (SmartStart™ uses only the SmartStart™ icon). The parking lights will flash 3 times quickly and remain lit. Release the button.	2. With the engine running, apply the parking brake twice within 10 sec. 3. Make sure to release the brake pedal. The parking lights will flash 3 times quickly and remain lit.
4. Remove the key: the engine will keep on running. 5. Exit the vehicle. All doors should be closed, including the hood and trunk.	
6. THERE ARE THREE POSSIBLE OPTIONS TO COMPLETE READY MODE (programmable by installer)	
<u>OPTION 1: No lock</u>	<u>OPTION 2: Manual shut down (default)</u>
The engine stops.	The engine keeps going until you press either; a.  to lock the doors and shut down the engine;
<u>OPTION 3: Automatic shut down</u>	The engine runs for 8 sec. then locks the doors before finally shutting down the engine, without user

	b.  to unlock the doors and shut down the engine; c.  to shut down the engine without affecting the doors.	interaction.
WARNING: The vehicle is not armed or locked down.	WARNING: Engine runs until the pre-programmed run time expires.	WARNING: <u>Do not</u> leave your keys in the vehicle!
The Parking lights will flash twice to indicate Ready mode is set. To see the  icon, refresh the remote screen by pressing  .	The  icon will appear on your screen.	The Parking lights will flash twice to indicate Ready mode is set. To see the  icon, refresh the remote screen by pressing  .

Remote-starting

1. Press the  button for approximately 1 second and release.
2. The remote will beep once and the LCD will display "START".
3. The remote will confirm the remote starter's activation by beeping 3 times.

If your vehicle does not start on the first attempt, the system will shut down, wait a few seconds and try to start the engine again. There will be 3 start attempts before the system gives up.

Driving Off

With the vehicle running remotely, press the  button to disarm the starter kill (if installed) and unlock the doors. Enter the vehicle and do the following:

1. Turn the ignition key to the IGNITION ON (RUN) position. (Do not turn the key to the CRANK position while the engine is running. This would cause the starter motor to re-engage.)
2. Press the brake pedal to disengage the remote starter unit.

You are now ready to drive off.

Note: On some Push-To-Start (PTS) vehicles, no takeover is possible as pressing the brakes will shut the engine down. Please talk to your technician to determine if the "Takeover mode" can be set for your vehicle.

Arming and disarming the starter kill (if installed)

This added security feature will prevent the vehicle from starting with the Ignition key when the starter kill is armed. If the system was installed with the starter kill option, the vehicle will not be able to start with the key unless the system has been unlocked first or put into Valet Mode (page 12).

Note: If the Starter Kill is installed, the vehicle will benefit from a protection against starter motor damage that could occur after remote-starting the engine should the user, by force of habit, turn the ignition key to the CRANK position.

The Starter Kill (if installed) can be configured by the installer either to Passive Mode (so as to arm automatically) or Active Mode (so as to require the user's intervention for arming). By default, the Remote Car Starter is configured to Passive Mode.

Passive mode:

To arm the Starter Kill:

- Press the  button on the transmitter.

OR

- Let the Starter Kill arm automatically 1 minute (by default) or 3 minutes (if configured this way) after the ignition is turned OFF or once the last door is closed (if the doors are monitored). The parking lights will flash once.
 - The LED on the antenna will flash quickly during the countdown preceding the activation of the Starter Kill.
 - Once the activation countdown expires, the LED will send a series of quick double flashes to indicate that the Starter Kill is now armed.

To disarm the Starter Kill:

- Press the  button on the transmitter.
 - The Starter Kill will automatically rearm itself after 1 minute (by default) or 3 minutes (if configured this way) if no door is left opened (if the doors are monitored) and the ignition is not turned ON.

Active Mode:

To arm the Starter Kill:

- Press the  button on the transmitter.
 - The parking lights will flash once.
 - The LED on the antenna will flash slowly.
 - If remote door locks are installed, this will also lock the doors and arm the OEM-style alarm (if configured).

To disarm the Starter Kill:

- Press the  button on the transmitter.
 - The parking lights will flash twice.
 - The LED on the antenna will remain OFF.
 - If remote door locks are installed, this will also unlock the doors and disarm the OEM-style alarm (if configured).

Remote Starter Features

Remote Door Locks

If your Remote Car Starter was installed with the Remote Door Locks option, you will have the convenience of remote keyless entry.

To LOCK your doors and ARM the system:

1. Press and hold the  button for approx. 1 sec.
2. The remote will beep once then display the  icon to confirm locking of the doors.

To UNLOCK your doors and DISARM the system:

1. Press and hold the  button for approx. 1 sec.
2. The remote will beep twice then display the  icon to confirm unlocking of the doors.

Remote Trunk Release

If your system was installed with the Remote Trunk Release option, you can open your trunk by pressing the  button until the remote displays the text "TRUNK" on the screen. In addition, this will also disarm the OEM-style alarm (if installed).

Idle Mode

Convenience feature: Idle Mode allows you to keep the engine running and the doors locked while you stop, for example, at a convenience store or for a short delivery.

This feature allows you to let the remote starter take over control of the vehicle (i.e. no Key in the Ignition Switch) while the engine is running.

Activating Idle mode (Automatic transmission):

1. With the engine running, make sure to release the brake pedal and press the ,  or  button on the transmitter until the parking lights come ON.
Note: SmartStart™ can be setup to use the SmartStart™ icon to activate Idle mode.
2. Remove the ignition key from the ignition switch.
The engine will continue running.
3. Exit the vehicle. All doors, the hood and trunk should be closed
4. Press the  button to lock the doors, to arm the starter kill and to arm the alarm (if available). The engine will continue running.
 - a. When re-entering the vehicle, the user must reinsert the key into the ignition and turn it to the ON position (not Crank) without pressing on the brake.
 - b. *Once the key is in the ON position*, press on the brake pedal to put the transmission in gear. Pressing the brake pedal at this step will cancel the remote starter takeover.
 - c. Drive off.

If your vehicle has a manual transmission, Idle Mode can be activated through the same routine as that used for Ready Mode (page-9); at the last step, press the  button to lock the doors, arm the system and leave the engine running.

Push-To-Start Idle Mode

This feature is a variation of "Idle mode", but made specifically for Push-To-Start vehicles, with automatic or manual transmissions. (Consult your installer for availability of this feature.) Follow the same steps as the normal Idle Mode procedure, except for when re-entering the vehicle while the engine is running;

1. Press unlock
2. Open then close all doors.
3. You have 1.5 minutes (or 3 minutes) to press on the brake pedal, to get in gear and drive off.

Note 1: Pressing on the brake pedal after the allocated (1.5 or 3-min.) period will shut the engine down.

Note 2: The engine will continue running until the user re-enters the vehicle or until the expiration of the run time.

Note 3: If the pre-programmed run-time expires or if the user shuts down the engine remotely, the vehicle will enter Ready Mode automatically (manual transmissions only).

Caution!! Do not leave children or pets unattended in a vehicle standing in Idle Mode.

Valet Modes

When the vehicle is in Valet Mode, the remote starter and alarm functionalities are disabled. If the vehicle needs to be serviced, or if you park it indoors, Valet Mode will prevent the engine from being remote-started accidentally.

Any of the following features will put the remote car starter into Valet Mode:

Ignition Valet: This feature allows you to set Valet Mode using the ignition key.

Remote valet: This feature allows you to set Valet Mode using the transmitter.

To put the system into Valet Mode

Using the KEY (Ignition Valet Mode):

1. Insert the ignition key into the ignition switch. Within 10 sec., turn the key to the IGNITION/RUN and OFF positions until parking lights flash 3 times.
2. Turn the ignition OFF.
3. The LED on the antenna will stay ON indicating that the vehicle has successfully entered Valet mode.
4. The  icon will appear on the LCD remote if the  or  button is pressed.

Using the TRANSMITTER (Remote Valet Mode):

1. Press the  and  buttons simultaneously until the  icon appears on the LCD display.
2. The LED on the antenna will stay ON indicating that the vehicle has successfully entered Valet mode.

To take the system out of Valet Mode

Using the KEY (Ignition Valet Mode):

1. Insert the ignition key into the ignition switch. Within 10 sec., turn the key to the IGNITION/RUN and OFF positions until parking lights flash twice.
2. Turn the ignition OFF.
3. The LED on the antenna will switch OFF indicating that the vehicle is now out of Valet mode.
4. The  icon will disappear from the LCD remote if the  or  button is pressed.

Using the TRANSMITTER (Remote Valet Mode):

- Press the  and  buttons simultaneously until the  icon disappears from the LCD display.
- The LED on the antenna will switch OFF indicating that the vehicle is now out of Valet mode.

If someone attempted to remote-start the vehicle while in Valet Mode; the parking lights will turn ON, then OFF, then will flash twice.

Panic Mode

Note: Panic mode can only be activated if the horn has been adequately configured by the installer.

In an emergency situation, you can activate panic mode by pressing and holding the  OR  button for more than 3 seconds, until the horn starts honking. If the vehicle is under a remote start, the engine will shutdown automatically before setting off the horn. You can stop the horn by pressing:

 (this will lock your doors and deactivate panic mode), or

 (this will unlock your doors and deactivate panic mode).

Furthermore, the panic mode can be stopped by activating Valet Mode (page-12)

* Panic Mode will automatically shut down after 30 sec.

Quick Lockout™

(Also called Secure Panic.) For fast protection in emergency situations, the system will LOCK all doors when you press the brake pedal while you hear the Horn sounding. (Quick Lockout is only available when Panic mode has been triggered.)

Cold Weather Mode

If the vehicle has a manual transmission, Ready mode (page-9) should be set before entering Cold Weather mode. When Cold Weather Mode is active, the engine starts every 2 hours and runs for 3 minutes (8 or 20 minutes for diesel engines). Cold Weather Mode automatically ends after 24 hours or 12 starts.

To enter Cold Weather Mode:

2-way remote:

1. Press and release  to select L-01.
2. Press and hold the  button until the  icon appears on the display.

OR

1-way remote:

1. Rapidly press AUX twice. While the remote's LED is flashing, press and hold  until the parking lights flash for 2 seconds, pause, and then flash 3 times.

To exit Cold Weather Mode, do any one of the following actions:

- Open the hood.
- Start the engine remotely.
- Turn the ignition key to the IGNITION ON (RUN) position.
- Or by using the remote as so:

2-way remote

- a. Press and release  to select L-01. Press and hold the  button until the  icon disappears from the display.

1-way remote

- b. Rapidly press AUX twice. While the remote's LED is flashing, press and hold  until the parking lights flash for 2 seconds, pause, and then flash once.

To verify whether the system is in cold weather mode:

- The  icon should appear on your remote display.
- OR
- (Automatic transmissions only) Press the brake pedal: If the vehicle is in Cold Weather mode, the parking lights will remain ON while the brake pedal is pressed.

Extended Run Time

While the vehicle is running remotely, press and hold the  button until the remote beeps 3 times. This will reset the run time counter to zero and restart the run time cycle from the beginning.

Note: The extended run time procedure can only be carried out once per remote start.

To stop the vehicle, at any moment, simply press and release the  button.

Example: If your remote car starter is programmed for a run time of 3 minutes and your vehicle has been running for 2 minutes already, pressing the  button will reset the counter to zero and allow the engine to run for another cycle (in this case, 3 minutes).

Disable/Enable LED flashing

To disable the LED: Press  and  simultaneously until the remote beeps once, pauses for 2 seconds, then beeps once again. Release the buttons. The parking lights will flash 3 times.

To Enable the LED: Press  and  simultaneously until the remote beeps once, pauses for 2 seconds, then beeps once more. Release the buttons. The parking lights flash once.

Temperature Request (If ACC-Temp-100 installed)

The user can request the temperature in the vehicle if a Temperature Sensor Module (ACC-Temp-100) is installed:

1. Through the remote's advanced function menu (page-6), select L-01.
2. Immediately press the  button and hold it until the temperature is displayed on the LCD screen.

Advanced Features: Installation-programmable Options

The remote starter was designed with flexibility and OEM integration in mind. With its programmable options, this unit can single-handedly control nearly any electrical system in your vehicle.

Caution: The programming of your system should be left to a professional. Changing any one of the settings may affect the operation of your remote starter.

Ignition-controlled Door Locks

This is an added security feature. If your Remote Car Starter was installed with the Ignition-Controlled Door Locks option, the doors will automatically lock as soon as the ignition key is turned to the IGNITION ON (RUN) position while the brakes are pressed. The remote car starter will also lock any door that was unlocked and opened (then closed) the next time the brake pedal is pressed (only when doors are monitored). When the key is turned to the OFF position, the doors will automatically be unlocked.

Secure Lock

Before it can remote-start your vehicle, the remote starter must first disarm the factory security system. The secure lock feature may be required on certain vehicle models with factory security systems that automatically unlock the doors when the security system is disarmed. To keep your vehicle protected when the factory security system is disarmed for a remote start, secure lock will relock your doors as soon as the vehicle has started. Once the engine run cycle ends, secure lock will rearm your factory security system.

Safe Start

This feature will eliminate accidental remote starts, e.g. when children are playing with the transmitter.

Safe start enabled: If this feature is enabled, the user must press the  button twice within 3 seconds to remote-start the vehicle.

Swap start: If this feature is enabled;

2-way remote:

1. Through the remote's advanced function menu (page-6), select L-01.
2. Press  to remote start the vehicle.

Note: The AUX 2 output can be activated by pressing the  button.

1-way remote:

1. Rapidly press AUX twice. While the remote's LED is flashing, press  to remote start the vehicle.

Note: The AUX 2 output can be activated by pressing the  button.

Engine Run Time

On a gas engine, the Remote Car Starter can be programmed to run the engine for 3, 15, or 25 minutes (15 minutes by default). On a diesel engine, the Remote Car Starter can be programmed to run the engine for 8, 20, or 30 minutes (20 minutes by default).

Turbo Mode

If Turbo Mode is configured at installation, it will allow a turbocharger to idle down after the user leaves the vehicle: the unit will take over the vehicle and keep it running for 60 seconds (or until it is shut down by remote control), then shut down the engine.

If your vehicle has an automatic transmission, proceed as follows to set the system to Turbo Mode:

1. With the engine running, make sure to release the brake pedal and press the ,  or  button on the transmitter until the parking lights come ON.
Note: SmartStart™ can be setup to use the SmartStart™ icon to activate Turbo mode.
2. Remove the ignition key from the ignition switch. The engine will continue running.
3. Exit the vehicle and close all doors, hood and trunk.
4. Press the  button; this will lock the doors, arm the OEM-style alarm (if configured) and confirm that the vehicle is in Turbo Mode.
5. The engine will shut down after 60 seconds.

If your vehicle has a manual transmission, follow all steps of the Ready Mode routine (page-9) to activate Turbo Mode. At the last step,

- Press  to lock the doors and have the engine shut down after 60 seconds; The parking lights will flash 3 times and remain lit. The OEM-style alarm and starter kill (if configured) will be armed.
- Press  to unlock the doors and have the engine shut down after 60 seconds; The parking lights will flash 3 times and remain lit.
- Press  to shut down the engine without affecting the doors.

Note: The vehicle will enter Ready Mode once the engine run time expires.

“Home Valet™” Mode

If configured at installation, this feature will remotely set the vehicle to a no-remote-start mode: if the vehicle is parked indoors, there is no danger of it starting accidentally by remote control. If the vehicle has a manual transmission, it should be set into ready mode before activating the Home Valet™.

Note: Once the Home Valet™ Mode is activated, the vehicle will not start by remote, but the OEM alarm functions will remain active.

To put the system into Home Valet™ mode:

1. Press the  or  button.
2. Within 3 seconds, press the  and  buttons simultaneously until the transmitter beep once and display  icon on the LCD screen.

To take the system out of Home Valet™ mode:

- Turn the ignition key to the IGNITION ON (RUN) position.

The system will warn you if someone attempts to start your vehicle while it stands in Home Valet™ mode. The parking lights will turn ON then OFF, then flash twice, pause, then flash twice again.

AUX 1

Note: This 500 mA negative Aux 1 output can be used for many different applications

Priority door:

This great feature allows the user to unlock solely the driver's door with a single press of the  button on the transmitter, and to unlock the other doors, if desired, by pressing the  button for a second time within 5 sec.

The output will provide a 1-second negative output when the  button is pressed a second time on the transmitter.

Horn Confirmation:

AUX 1 can be programmed to trigger the horn every time the  button is pressed, or when the  button is pressed twice within 3 seconds. When horn confirmation is activated, panic mode is enabled. If horn confirmation is disabled, panic mode will not be available.

Horn Chirp Timing

The pulse duration can be configured by your installer (from 5 ms to 200 ms).

Multi-car Operation

This option allows the owner of two vehicles, both equipped with the same remote starter model, to control both systems with a single remote control.

Note: Your remote control must be configured for second car operation by the installer.

To control the second vehicle:

Press  +  simultaneously:..... LOCK
Press  +  simultaneously:..... UNLOCK
Press  +  simultaneously:..... START
Press  +  simultaneously:..... STOP
Press  >  > :..... TRUNK

OR

Press  >  > :..... LOCK
Press  >  > :..... UNLOCK
Press  >  > :..... START
Press  >  > :..... STOP
Press  >  > :..... TRUNK

OEM-Style Alarm

The OEM-style alarm (if configured by your installer) monitors the doors, hood and ignition switch of your vehicle. It will sound the horn if a door or the hood is opened, or if the key is turned in the ignition.

- To arm the OEM-style alarm, press the  button on the transmitter.
 - The OEM-style alarm will ONLY arm if the  button on the transmitter is pressed.
 - The LED on the antenna will flash slowly to indicate that the OEM-style alarm is now armed.
- To disarm the OEM-style alarm, press the  button on the transmitter.
 - To stop the horn from sounding if the OEM-style alarm is triggered, press the  or  button, or put the system in and out of Valet Mode (page-12)

Intrusion Codes via horn

The system monitors the following:

- Doors
- Hood
- Ignition

Note: If an intrusion has occurred the HORN will sound for a maximum of 1 minute

If an intrusion has occurred and  pressed, the horn provides an intrusion code corresponding to the type of intrusion that occurred.

Diagnostic table:

1x = power interruption	4x = Doors intrusion
3x = Hood	6x = Ignition

Missing a Start or a Stop Confirmation

If you have not received a Start or the Stop confirmation after pressing the  button, pressing the  button within range of the remote starter's signal will refresh the display and will confirm if the vehicle was started or stopped.

If no start confirmation was received:

- Press the  button:
 - The remote's  icon will start flashing
 - The  icon and runtime time countdown will be displayed.

If no stop confirmation was received:

- Press the  button:
 - The  will be displayed
 - The remote's  icon and the runtime countdown will disappear.

Multi-Level Features

The multi-level features allow you to access different features of your vehicle or of a second car by pressing the **[F]** button once, twice or three times. For convenience purpose, the order of LEVELS and MENU can be re-arranged through FBPRO setting (page-9)

Features:

- MENU: see page-6 for complete lists of MENU available.
- Basic features: AUX 2, Cold Weather mode, Swap Start, Temperature request
- Multicar Operation: Allows the owner to control both vehicle equipped with the same remote starter model.
- Customized feature: Your installer can add customized features such as turning on the radio, opening sliding doors, etc.

To control the Multi level features, refer to the tables below:

FBPRO setting 1 *default		
FBPRO setting	Features	Levels
1	Basic features	L01
2	Multicar operation	L02
3	Customize feature	L03
M	MENU	MENU
FBPRO setting 3		
FBPRO setting	Features	Levels
3	Customize feature	L01
1	Basic features	L02
2	Multi car operation	L03
M	MENU	MENU
FBPRO setting 5		
FBPRO setting	Features	Levels
M	MENU	MENU
1	Basic features	L01
2	Multicar operation	L02
3	Customize feature	L03

FBPRO setting 2		
FBPRO setting	Features	Levels
2	Multicar operation	L01
3	Customize feature	L02
1	Basic features	L03
M	MENU	MENU
FBPRO setting 4		
FBPRO setting	Features	Levels
2	Multicar operation	L01
1	Basic features	L02
3	Customize feature	L03
M	MENU	MENU

Example: If the multi-level feature is set to FBPRO setting 3, the basic features can be access as follow:

To activate AUX 2 feature, browse the remote's Advance Functions (page-6) and select L03. After selecting L03, immediately press lock to activate AUX 2 feature.

Troubleshooting Transmitting Range

Many factors may affect the operating range of the transmitter. Some of these are:

- The condition of the battery in the transmitter.
- The operating environment (for example: downtown radio-frequency noise, airports, cellular phone towers...)
- Metal: any type of metal will affect operating range. This includes the metal in the car.
- The shape of the vehicle can affect range as well; vans in general have an especially poor range.
- The shape of the roof and A-pillars brings about considerable radio-frequency deflection (in this case the signal from the remote control). As a result, the direction in which the vehicle is facing in relation to the remote control can affect the range. Straight on – standing in front of the vehicle – generally gives you the greatest range; the second best performance is from the back. Using the remote control from either side of the vehicle will usually give the lowest range.
- The range will be significantly lower in a crowded parking lot than in open space.
- Always hold the transmitter high, approximately at shoulder height. Holding the transmitter against your chin will also increase your range: your head acts as an antenna.
- The operating range will be somewhat lower on vehicles equipped with an aftermarket or factory alarm.

Diagnostics – Parking Light Flash Table

Parking lights flashes	Description
1	• Doors locked. • Trunk released. • Start signal received from the remote. • Runtime has expired
2 slow	• Shutdown by remote
2 fast	• Doors unlocked • Valet mode is deactivated
3 slow	• Runtime is extended.
3 fast	• Valet mode activated.
4 fast	• Shutdown by brake • A remote start was attempted while the brake pedal is engaged.
10 fast	• Shutdown by hood • A remote start was attempted while the hood is open.
ON → twice	• Cold weather mode deactivated
ON → 3 times	• Cold weather mode activated.
Solid ON	• Engine is running under remote start.
Flash for 30 sec.	• Panic mode is triggered.
Flash for 60 sec.	• Alarm is triggered.
ON → twice → twice	• A remote start was attempted while the system is in home valet.